

Name \_\_\_\_\_

## Mass and Friction

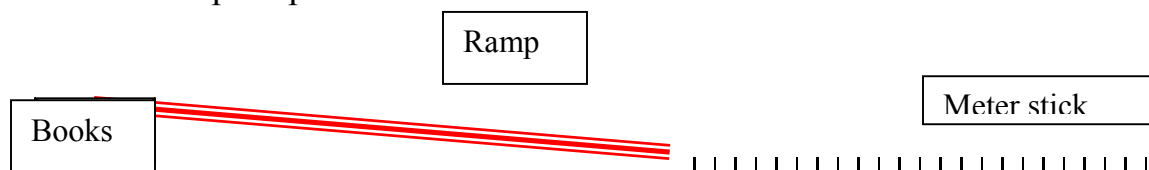
**Let's test how the car's motion is affected by mass.**

**Your hypothesis:** How will more mass affect the motion of the car? \_\_\_\_\_

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### Procedure

1. Place the ramp on a wide area of floor. Put the number of books under one end that your class decides is best. Put two meter sticks in a row on the floor ahead of the ramp. Tape the meter sticks to the floor.



2. Place a two inch piece of tape on top of the car on top of the ramp and let go of the car. The car will probably not move. Do this three times and record the results.
3. Now try two pennies, then four, and six. Try each one three times. Write down the way that your car moves for each.

<b>Number of Pennies</b>	<b>Trial Number</b>	<b>Description of the Motion</b>	<b>Distance Traveled</b>
0	1		
	2		
	3		
2	1		
	2		
	3		
4	1		
	2		
	3		
6	1		
	2		
	3		

How can you explain your result?\_\_\_\_\_